

Tuesday, January 03, 2017 1:07:01 PM

Page 1

JAN 10 2017



Work Order update only ☐

Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS					
Part No. _____		Rework ☐		Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐		
NCR No. _____		Scrap ☐		Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐		
		Use-as-is ☐		Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐		
		Suspected Unapproved ☐		Large Fab ☐	Composite ☐	Supplier ☐			
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabelled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process								
Misidentified ☐	☐ Past Due	OTHER :							

Work Order ID 154870***154870***

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Tuesday, January 03, 2017 1:07:01 PM

Item ID: D3456-1

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Washer

Start Date: 1/5/2017 Start Qty: 25.00

25

Cust Item ID:

Required Date: 1/17/2017 Req'd Qty: 25.00

25

Customer:

Reference:

Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run Start

NR1

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

Identify as per dwg & Stock Location: STOJA

0.00

130

Packaging

Memo

0.04

JAN 10 2017

25

DAS

6

9-89

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.42

DAS

21

9-89

JAN 16 2017

Quality Control

VS 17/1/11

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																	
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154870

D3456-1

Required Qty: 25.00

[illegible]

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

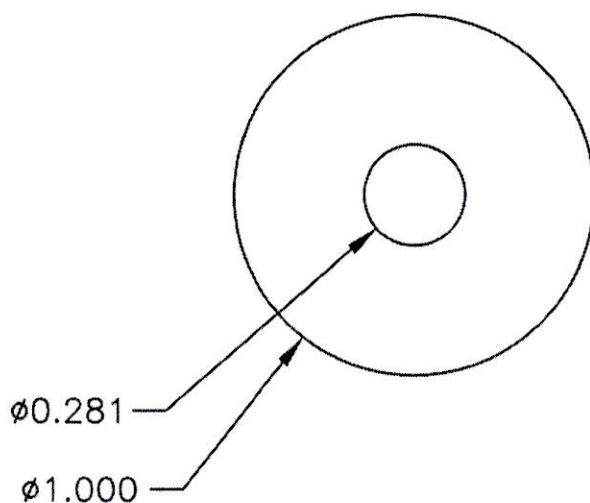
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OTHER : _____					



DESIGN CP	DRAWN BY CP	DART AEROSPACE USA, INC. PORT HADLOCK, WA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3456	REV. A SHEET 1 OF 1
DATE 05.09.01		TITLE WASHER	SCALE 2:1
A	05.09.01	NEW ISSUE	

RELEASED
05-09-06 *[Signature]*

SPECIFICATION CONTROL DRAWING



D3456-1 WASHER

- 1) MATERIAL: 316 STAINLESS STEEL, 0.050" THICK
- 2) MAY PURCHASE McMASTER-CARR P/N 91525A120
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 15187045
1701-03

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO34815

Purchase Order Date 1/5/2017

PO Print Date 1/5/2017

Page Number 2 of 4

Order From :
MCMASTER-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

VU-MCM001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 330 995 5500

Ship To Contact
Ship To Phone
Ship Via: Purolator ground ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 10
Currency USD
FOB FCA - (Free Carrier)

Line Total: \$15.92

Deliver To: GARY

4	9273K43	Velcro Hook & Loop Color: Black	1/6/2017	50.00	\$2.10	\$105.21
			Yes	Each		
			1/6/2017			

AS PER DWG D4730 REV. B
B154872

Line Total: \$105.21

5	92311A599	SET SCREW	1/6/2017	50.00	\$0.20	\$10.13
			Yes	Each		
			1/6/2017			

AS PER DWG D2712 REV. B
B154871

Line Total: \$10.13

6	91525A120	washer ✓	1/6/2017	25.00	\$0.25	\$6.26
			Yes	Each		
			1/6/2017			

AS PER DWG D3456 REV. A
B154870

DAS
38
3-89

SP14-01-9

Note:

1/5/2017



10 Aurora Industrial Pkwy
Aurora OH 44202-8087
1-800-995-5500
e.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada
Attention: Gary

Purchase Order
PO34815

Order Placed By
Chantal Lavoie

McMaster-Carr Number
5251161-01

Part Number	Product	Ordered	Shipped
90296A108	18-8 Stainless Steel Screw-Lock Helical Insert 6-32 Thread Size, 0.276" Installed Length, Packs of 5, Our 20 Pk = Your 100 Each	20 Packs	20
7510A653	Plastic Syringe with Luer Lock Tip, 0.34 oz. Capacity, Packs of 10, Our 10 Pk = Your 10 Each	10 Packs	10
1145N1	Paint and Drywall Mud Mixing Attachment 5/16" Shaft Diameter, 16" Shaft Length	2 Each	2
9273K43	General Purpose Nylon Hook and Loop 2" Width x 50' Length, Adhesive Back, Black, Our 1 Ea = Your 50 Each	1 Each	1
92311A599	18-8 Stainless Steel Cup Point Set Screw 5/16"-24 Thread, 5/8" Long, Packs of 50, Our 1 Pk = Your 50 Each	1 Pack	1
91525A120	316 Stainless Steel Washer Oversized, 1/4" Screw Size, 0.281" ID, 1" OD, Packs of 25, Our 1 Pk = Your 25 Each	1 Pack	1
6605K56	Hook and Loop Cable Ties 24" Overall Length, Meets UL 94V2, Packs of 5, Our 2 Pk = Your 10 Each	2 Packs	2
5346K14	Brass Barbed Hose Fitting 1/4" Hose ID, 1/4 NPTF Male End, Packs of 10, Our 10 Pk = Your 10 Each	10 Packs	10
6641A41	Loctite Gasket Maker #598, 2.36 oz. Tube, Your Line 10	10 Each	10

8017-01-9

Certificate of compliance

This is to certify that the above items were supplied in accordance with the description and as illustrated in the catalog. Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

Sarah Weinberg
Compliance Manager